

-continued

Ala	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Thr	Ser	Ser	Thr	Thr	Val	Thr
65					70				75					80	
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			85						90					95	
Ala	Arg	Gly	Gly	Gly	Val	Pro	Gly	Asp	Gly	Tyr	Ala	Leu	Trp	Gly	Pro
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<210> SEQ ID NO 42
 <211> LENGTH: 112
 <212> TYPE: PRT
 <213> ORGANISM: Artificial Sequence
 <220> FEATURE:
 <223> OTHER INFORMATION: Synthetic Peptide

<400> SEQUENCE: 42

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			20					25					30		
Ser	Asn	Leu	Val	Trp	Tyr	Gln	Gln	Lys	Ser	Gly	Gln	Pro	Pro	Lys	Leu
		35					40					45			
Leu	Ile	Tyr	Asp	Ala	Ser	Met	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe
	50					55					60				
Lys	Gly	Ser	Gly	Ser	Gly	Thr	Gln	Phe	Thr	Leu	Thr	Ile	Ser	Asp	Leu
65					70					75				80	
Glu	Cys	Ala	Asp	Gly	Ala	Thr	Tyr	Tyr	Cys	Gln	Ser	Tyr	Tyr	Val	Ala
				85					90					95	
Ser	Ser	Ser	Tyr	Phe	Val	Asn	Gly	Phe	Gly	Gly	Gly	Thr	Glu	Val	Val
			100				105						110		

What is claimed is:

1. A method of treating an individual with cancer with a therapeutic anti-leukemia inhibitory factor (LIF) antibody comprising determining a level of LIF that exceeds a reference level in a biological sample from the individual, and administering a therapeutic amount of the anti-LIF antibody to the individual when the level of LIF is greater than the reference level of LIF.

2. The method of claim 1, wherein the therapeutic anti-LIF antibody comprises:

- a) an immunoglobulin heavy chain complementarity determining region 1 (VH-CDR1) comprising the amino acid sequence set forth in any one of SEQ ID NOs: 1-3;
- b) an immunoglobulin heavy chain complementarity determining region 2 (VH-CDR2) comprising the amino acid sequence set forth in any one of SEQ ID NOs: 4 or 5;
- c) an immunoglobulin heavy chain complementarity determining region 3 (VH-CDR3) comprising the amino acid sequence set forth in any one of SEQ ID NOs: 6-8;
- d) an immunoglobulin light chain complementarity determining region 1 (VL-CDR1) comprising the amino acid sequence set forth in any one of SEQ ID NOs: 9 or 10;

e) an immunoglobulin light chain complementarity determining region 2 (VL-CDR2) comprising the amino acid sequence set forth in any one of SEQ ID NOs: 11 or 12; and

f) an immunoglobulin light chain complementarity determining region 3 (VL-CDR3) comprising the amino acid sequence set forth in SEQ ID NO: 13.

3. The method of claim 2, wherein the therapeutic anti-LIF antibody comprises an immunoglobulin heavy chain variable region comprising at least 85%, 90%, 95%, 97%, 98%, 99%, or 100% identity to SEQ ID NOs: 14, 15, 17, or 38 and an immunoglobulin light chain variable region comprising at least 85%, 90%, 95%, 97%, 98%, 99%, or 100% identity to SEQ ID NO: 18-21.

4. The method of claim 3, wherein the therapeutic anti-LIF antibody comprises an immunoglobulin heavy chain region comprising at least 85%, 90%, 95%, 97%, 98%, 99%, or 100% identity to SEQ ID NOs: 30-33 or 39, and an immunoglobulin light chain region comprising at least 85%, 90%, 95%, 97%, 98%, 99%, or 100% identity to SEQ ID NOs: 34-37.

5. The method of any one of claims 1 to 4, wherein the therapeutic anti-LIF antibody is an IgG antibody comprising two immunoglobulin heavy chains and two immunoglobulin light chains.